

magnetic thickness) to 0.12 memu/cm² (equivalent to 15 Å in Ni-Fe magnetic thickness). If the desired full *in-situ* oxidization is attained, the Al-O film in contact with the Ni-Fe film protects the Ni-Fe film from oxygen penetration, thus maintaining the entire magnetic moment of the Ni-Fe film at 0.16 memu/cm² (equivalent to 20 Å in Ni-Fe magnetic thickness).

The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes which come within the meaning and range of equivalency of the claims are to be embraced within their scope.

What is claimed is: